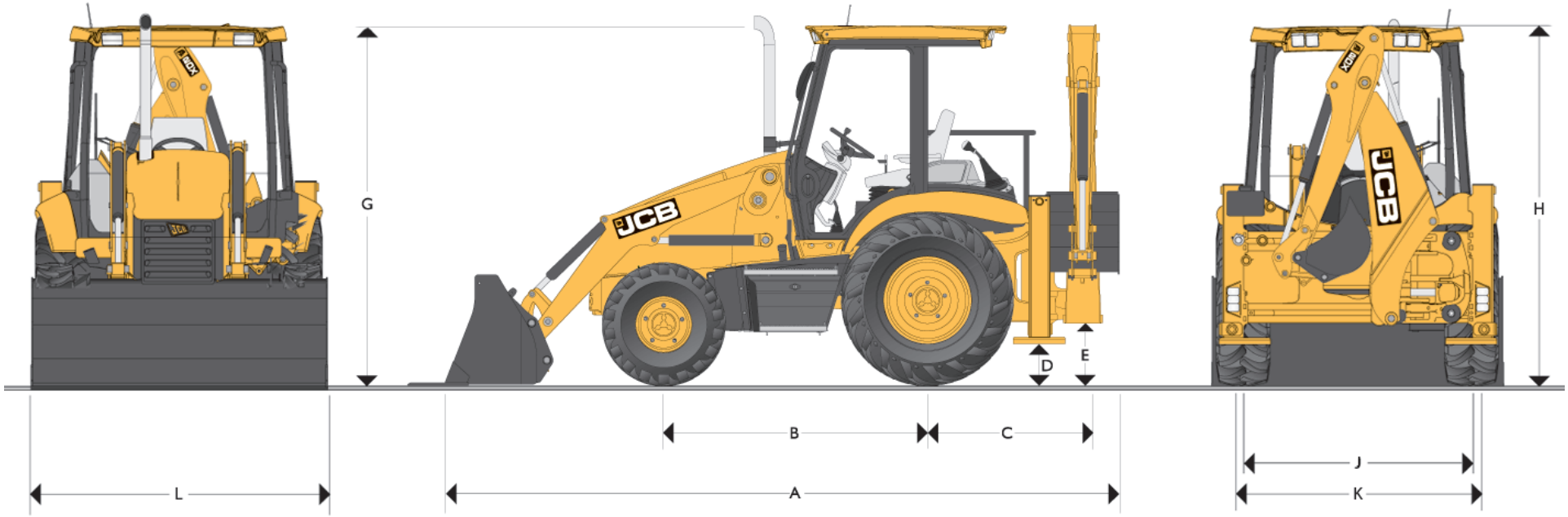
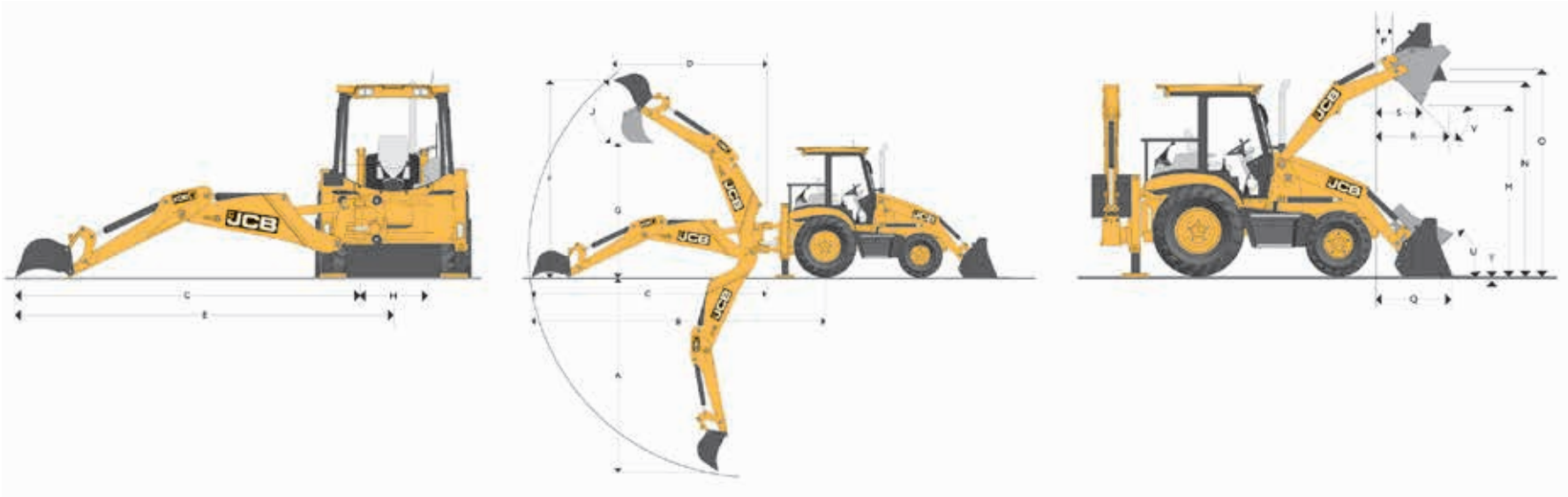
MAXIMUM ENGINE POWER: 36.9kW (49.5hp) MAXIMUM BACKHOE DIG DEPTH: 3.02m (9ft 11in)



STATIC DIMENSIONS

A	Overall length	5.5m
B	Wheelbase	1.99m
D	Minimum ground clearance	0.33m
E	Slew ground clearance	0.51m
G	Height to top of cab	2.65m
H	Overall height	2.47m
J	Track width - rear	1.42m
K	Track width - front	1.62m
L	Width over bucket	1.88m



EXCAVATOR PERFORMANCE

A	Maximum dig depth	3.02m
B	Reach - ground level to rear wheel centre	5.18m
C	Reach - ground level to slew centre	3.93m
D	Reach at full height to slew centre	1.98m
E	Side reach to centre line of machine	4.36m
F	Maximum working height	3.88m
G	Maximum load over height	2.82m
H	King post travel	0.86m
J	Bucket rotation – power	182°
	Bucket tearout force	3120kgf
	Dipper tearout force	1750kgf
	Lift capacity to bucket pivot at full reach (no bucket fitted) (SAE J31)	850kg

Data with standard dipper.

LOADER PERFORMANCE

		0.55 cu.m GP Shovel
M	Dump height	2.20m
N	Load over height	2.81m
O	Pin height	2.96m
P	Pin forward reach	0.44m
Q	Reach at ground	1.46m
R	Maximum reach at full height	1.31m
S	Reach at full height – bucket dumped	0.91m
T	Below ground level dig depth	0.10m
U	Rollback at ground	45°
V	Dump angle	46°
	Bucket breakout force	2610kgf
	Loader arm breakout force	1600kgf
	Payload	800kg

ENGINE

Model	KOEL 4R810, water cooled, BS III diesel
Aspiration	Naturally aspirated
No. of cylinders	4
Displacement	3.2 litres
Gross power @ 2200rpm	49.5hp (as per SAEJ 1995)
Gross torque @ 1400rpm	203Nm (as per SAEJ 1995)

TRANSMISSION

The JCB synchroshuttle transmission provides superb drive power in all conditions. It consists of a 4-speed, fully synchromesh, smooth shift gearbox with integral torque converter and electrically operated reversing shovel.

- Easy-to-use, column mounted electric reversing shuttle switch can change machine direction while allowing operator to keep hands on the steering wheel leading to fast cycle times.
- The pedals layout and conventional 4-pattern gear lever with transmission disconnect switch adds to the overall ease of operation. On-the-move gear changes are possible.
- Torque convertor stall ratio is 2.67:1

BRAKES

- **Service:** Hydraulically actuated, dual line, self adjusting compensated oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance. Operated through independent pedals linked together for normal use.
- Two independentally operatable foot pedals enable machine to manoeuvre in tight spaces.
- **Parking**: Electrically operated by switch, dust proof, self adjusting, oil immersed sealed parking discs inside the gearbox.

STEERING

Full power, front wheel hydrostatic power steering with power track road and manual capability in the event of engine or hydraulic power failure.

Hydraulic supply from pump via priority valve. Working pressure 1810psi (125 bar).

ELECTRICS

100 ampere-hour 12 volts battery system with alternator and full road lighting.

TYRES

Front: 7.5x16-16PR

Rear: 14.9x24-12PR

TURNING CIRCLE

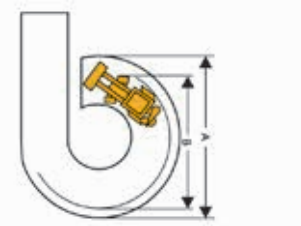
Inner wheels braked

A*	Outside loader bucket	9.70m
B	Outside wheels	7.44m

Inner wheels not braked

A*	Outside loader bucket	11.0m
B	Outside wheels	7.90m

*Standard bucket in travel position.



SPEED

Gear	Forward Km/hr	Reverse Km/hr
1st	4.55	4.55
2nd	7.76	7.76
3rd	16.4	Not recommended
4th	28	Not recommended

Standard tyres with zero torque converter slip @ 2200rpm.

HYDRAULICS

System Pressure: 2610psi (180 bar)
Pump type: Gear, double pump
Combined pump flow: 69lpm @ 2200rpm

Filtration through suction strainer and return line 'JCB filtromatic filter'.

WEIGHT

Shipping: 4530kg

SERVICE CAPACITIES

Hydraulic system	60 litres
Fuel tank	60 litres
Engine coolant	13.5 litres
Engine oil	8 litres
Transmission	16 litres
Rear axle	11 litres

CANOPY

- Front glass with wiper provided for operator comfort whilst driving.
- Excellent operator safety.
- Floormats and plenty of legroom minimises fatigue and provides extra comfort to the operator.
- Adjustable operator seat combined with ergonomically positioned controls and soft touch steering wheel allows an operator to work uninterrupted for long hours.
- Canopy provides easy 'walk-through' access. Other features include seat belt, large convex rear view mirror, front screen wiper, front and rear horn, hazard warning system, lockable tool box and helper seats (2+1).
- Instrumentation panel is positioned on the right hand side and includes engine speed, engine hours, fuel level, water temperature and mobile charger. Easily visible while both end operation.
- Audible and visual fault warning system for alternator charging, coolant temperature, engine oil pressure, blocked air filter, transmission oil pressure and temperature and hand brake on.

AXLES

Rear: Drive axle rigidly mounted, incorporates JCB Max-Trac torque proportioning differential, driven by short propshaft from gear box.

Front: 2WD steer axle, centrally pivoted with oscillation angle of 16°.

OPTIONS

Excavator buckets

Capacities: 0.18 cu.m (standard)
0.16 cu.m
1ft bucket

A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders, tractors and compaction equipment.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the world.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of more than 650 dealers and agents, we aim to deliver the best customer support in the industry.

Through setting the standards by which others are judged, JCB has become one of the world's most impressive success stories.

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